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Oil Free

AIR COMPRESSORS

230V ~ 50Hz • 380V ~ 50Hz • 8Bar • Low Noise



ALL MODELS

User Manual





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ABOUT THIS DOCUMENT

This manual has been compiled by Garagekillar.se and is an integrated part of the product with which it's enclosed and should be kept with it for future reference. Please read all of the information supplied in this User Manual before operating this product.

This manual describes the purpose for which the product has been designed and contains all the necessary information to ensure its correct and safe use. We recommend that you read the information supplied before carrying out any maintenance or repair. By following all the general safety instructions contained in this manual you will help to ensure operator safety and extend the potential life span of the equipment.

All photographs and drawings in this manual are supplied by Garagekillar to help illustrate the operation of the product. Whilst every effort has been made to ensure accuracy of information contained in this manual our policy of continuous improvement determines the right to make modifications without prior warning.

The information contained in this Instruction Manual is designed to assist you in the safe operation and maintenance of the compressor. Some illustrations in this Instruction Manual may show details or attachments that differ from those on your own compressor. Contact your nearest Dealer if you are unsure about any information included in this manual or require any additional information about the safe use, operation maintenance, or repair of this equipment.

INTRODUCTION

- Oil free compressors suitable for professional workshops
- Fitted with a heavy duty **single-phase and three-phase** motors
- Heavy-duty cylinders with alloy heads for improved heat dissipation
- Comes complete with pressure regulator with moisture trap
- Large and solid wheels for ease of mobility
- Castor wheel for improved stability and manoeuvrability
- Powder-coated tank
- Twin pressure gauges showing tank and working pressure

SPECIFICATIONS

Model Numbers:	GK-LNC9L / GK-LNC24L / GK-LNC50L / GK-LNC100L / GK-LNC200L
Tank Capacity:	9L, 24L, 50L, 100L & 200L
Motor:	230V: 9L=550W / 24L=750W / 50L=750Wx2 / 100L=750Wx3 380V: 200L=1500Wx3
Maximum Pressure:	8bar (115psi)
Plug Type / Rated Supply:	EU 3-Pin / 16A or EU 4/5-Pin / 32A
Cylinders:	9L & 24L = 1 50L = 2 100L&200L = 3
Pump Speed:	1440rpm
Capacity L/Min	230V: 9L=106 / 24L=137 / 50L=274 / 100L=411 380V: 200L=735
Input Voltage ~ Frequency:	230V ~ 50Hz or 380V ~ 50Hz
Guaranteed Sound Power Level:	≤60 dB(A)
Lubrication Oil / Capacity:	No lubrication required

Oil Free**AIR COMPRESSORS**

230V ~ 50Hz • 380V ~ 50Hz • 8Bar • Low Noise

UNPACKING & ASSEMBLY

Upon receipt of the compressor, ensure all components are present and have remained undamaged in transit..Retain the packing materials and packaging in case future transportation of the compressor is necessary. We recommend that the packaging is kept, at least within the period of the guarantee (Fig.1).

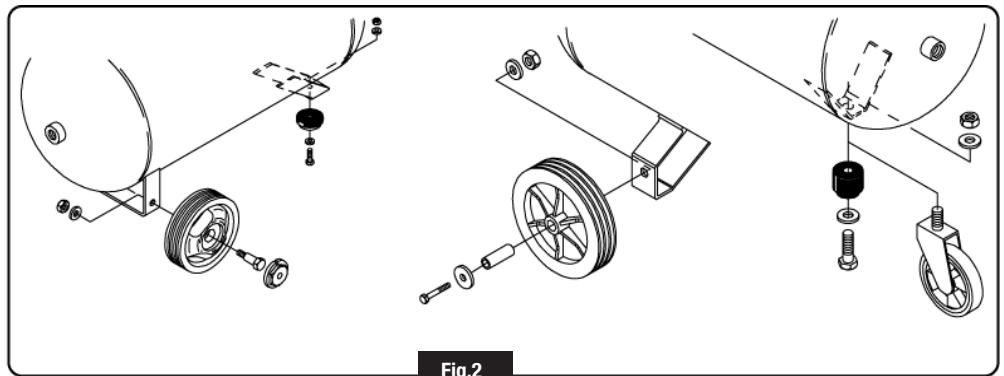
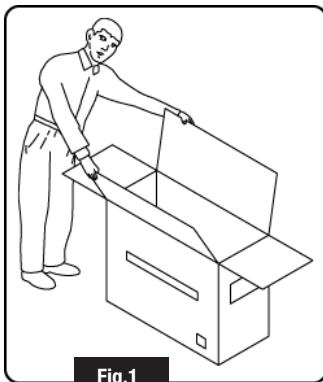
WHEELS

Pass the 15mm bolt through the wheel, the compressor's frame and secure with the 15mm nut. Locate the wheel onto the axle and secure in place with the internal self locking washer (single use only) (Fig.2).

AIR FILTER

If not already fitted, remove the transit bung from the top of the head and screw the air filter assembly into position.

PLEASE NOTE THE FOLLOWING PHOTOGRAPHS & INSTRUCTIONS ARE FOR REFERENCE ONLY AND MAY DIFFER FOR YOUR COMPRESSOR MODEL. PLEASE CONTACT GARAGEKILLAR IF YOU NEED ANY ADVICE ON THE ASSEMBLY PROCEDURE.



Position the compressor on a flat surface or with a maximum permissible inclination of 10° (Fig.3), in a well aired place, protected against atmospheric agents and not in a place subject to explosion hazard.

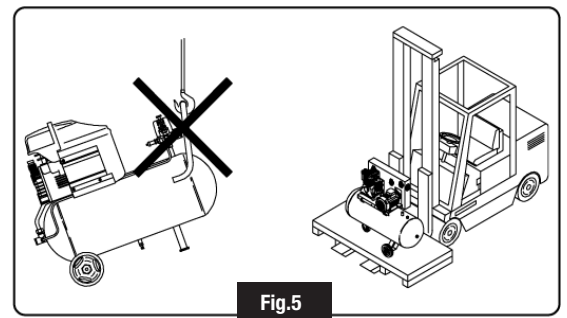
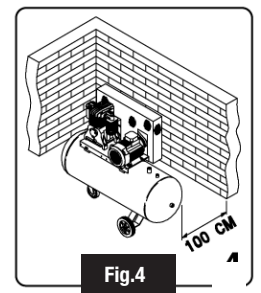
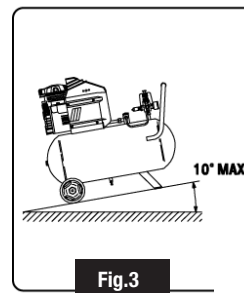
If the surface is inclined and smooth, check if the compressor moves while in operation – if it does, secure the wheels with two wedges.

To ensure good ventilation and efficient cooling, (Fig. 4).

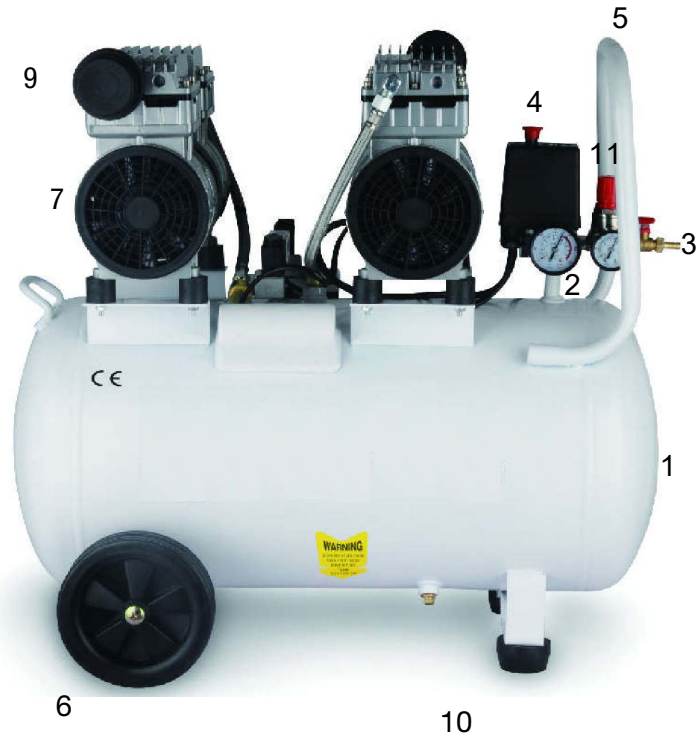
Ensure that the compressor is transported correctly, do not overturn it or lift it with hooks or ropes (Fig. 5)

After removing the packing materials, check to ensure the product is in perfect condition and that there are no damaged parts from transit. If in doubt, do not use the product and notify your Dealer.

The packaging materials (cardboard, plastic bags, polystyrene, etc), must be disposed of in an appropriate manner and recycled where possible. These materials must not be left within the reach of children as they are potential sources of danger.



EQUIPMENT IDENTIFICATION



1. Air Tank	10. Tank Drain Valve
2. Pressure Gauge	11. Pressure Regulator
3. Air Outlet (Quick Release)	
4. Off/On Switch	
5. Transportation Handle	
6. Wheel	
7. Motor Assembly	
8. Air Filter	
9. Pump Assembly	

BEFORE FIRST USE

OILFREE AIR COMPRESSOR

With the features of low noise, energy-saving, environmental protection and used securey , this machine is widely used in the fields of automotice, medical,sanitation, foodstuff, scientific testing and so forth.

Pressure Switch usage

- 1).Turn the pressure switch to "off" or "auto", when the switch is turned to "auto" the compressor will start pumping. Once the compressor reaches its maximum pressure, it will automatically stop pumping.
- 2).When the switch is turend to "off" the compressor stops pumping.
- 3). The compressor is equipped with a safety valve switch. When the air pressure in the tank exceeds 0.9Mpa, the safety valve will discharge pressure automatically. If the safety valve starts to discharge air pressure, make sure to check if the air pressure is to high, or if the valve is malfunctioning.
- 4).If your compressor is equipped with a water seperator, make sure to regularly drain the seperator.
- 5).The pressure regulator can be adjusted to increase or decrease the outlet air pressure. simply by twisting the knop clockwise (increase) or counter clockwise (decrease), while watching the pressure gauge. You can also increase or decrease the air tank pressure at the main valve. Do not increase the air tank pressure above 0.85Mpa and do not reduce the air tank pressure below 0.4Mpa.

WARNING: In order to guarantee your personal safety, please cut off the power supply before attempting any of the above-mentioned procedures.

1. Ensure the air compressor is kept clean at all times.
2. Clean /drain away all liquids in the tank at least twice per week. When cleaning, make sure the air tank pressure remains below 0.1 MPa.
3. Maintain the safety valve in precise working condition. When the air tank pressure reaches between 0.5 and 0.7 MPa, gently pull the safety valve to allow for proper discharge. Press the shaft to reset it.
4. Clean the air valve after every 500 hours of usage and replace the muffler element. Replace the piston ring after every 1500 hours.
5. Conduct pressure testing for the air tank every 2 years and perform an annual double-surface inspection. If any serious rust or failure in the collider testing is detected, the tank should be discarded.
6. Before moving the air compressor, release all air tank pressure to ensure safe and unrestricted movement.

SAFETY GUIDELINES



Read and ensure that you understand all of the operating instructions, safety precautions and warnings in this Instruction Manual before operating or maintaining this compressor. Most accidents that result from compressor operation and maintenance are caused by the failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing a potentially hazardous situation before it occurs, and by observing appropriate safety procedures. Hazards that must be avoided to prevent bodily injury or machine damage are identified by warnings on the compressor and in this Instruction Manual. Never use this compressor or modify it in any way that has not been specifically recommended by the manufacturer. Contact a qualified electrician for advice on any issues relating to electrical safety in your working environment.

ELECTRICAL SAFETY



Ensure that you check the equipment thoroughly to ensure it is safe and fit for purpose before each use. It is important that you inspect all plugs, sockets, power cables and electrical fittings for wear and damage and repair or replace any defective components. The risk of electric shock can be minimised by the correct use of the appropriate electrical safety devices.

Usage Requirements:





- 1) The storage & transportation environment must be controlled between -40-C and 50°C, the relative humidity <95%.
- 2).The working environment must be dry, clean and well-ventilated, the environment temperature between -5-C and 40-C, the relative humidity <80%.
- 3) Please keep the machine out of wet, inflammable and dusty conditions.
- 4) Please keep the machine on the flat ground without any inclinations.
- 5) The voltage should not be lower than or exceeding 10% of the rated voltage of the product.
- 6) In order to avoid any injures, it's prohibited to touch any high temperature parts of the compressor, such as the cylinder head, exhaust pipe, one-way valve and so forth.
- 7) Please keep the cross section of electrical cable ;3.1.5m.m and with the proper length.
- 8). Usage is restricted to providing air sources for air tools only. Under no circumstances should the discharged air be directed towards any person or animals.
- 9). Ensure that the machine is in the "OFF" state before connecting the machine on the main power supply.
- 10). Any form of collision is strictly prohibited under all circumstances. To prevent any movements resulting from external pressure, it is crucial to promptly implement effective safety measures.



EQUIPMENT SAFETY

- Never place your hands, fingers or other body parts near the compressor's moving parts during operation. Ensure that the equipment is isolated from the power supply and all switches in the **OFF** position before carrying out maintenance, repairs or adjustments.
- Never operate this compressor without all guards or safety features in place and in proper working order. If maintenance or servicing requires the removal of a guard or safety features, be sure to replace the guards or safety features before resuming operation of the compressor.
- Always wear safety goggles or equivalent eye protection. Compressed air must never be aimed at anyone or any part of the body.
- When not in use, the compressor should be stored in dry place. Keep out of reach of children. Keep children and animals away from the work area.
- Clear all work areas of unnecessary tools, debris, furniture etc. prior to use. Cluttered work areas can lead to injuries.
- Do not wear loose clothing or jewellery when operating this equipment. They can be caught in moving parts. Wear protective hair covering to contain long hair.
- Follow instructions for lubricating this equipment as required.
- Watch what you are doing and remove any potential distractions before use. Use common sense at all times.
- Do not operate this equipment when you are tired or if you are under the influence of alcohol, drugs or medication that makes you drowsy.
- Check for the correct alignment of moving parts, binding of moving parts, condition of parts, mounting, and air leaks, and any other issues that might affect the safe operation of this equipment. A guard or other part that is damaged should be properly repaired or replaced by an authorized service centre unless otherwise indicated elsewhere in this instruction manual. Have defective pressure switches replaced by an authorized service centre. Do not use compressor if the switch does not turn it on and off.
- Operate the compressor according to the instructions provided in this manual. Never allow the compressor to be operated by children, individuals unfamiliar with its operation or unauthorized personnel.
- Keep all screws, bolts, and plates tightly mounted. Check regularly.
- The motor air vent must be kept clean so that air can freely flow at all times. Check for dust build-up frequently and clean as required.
- If the equipment appears to be operating unusually, making strange noises, or otherwise appears defective, stop using it immediately and arrange for repairs by a authorized service centre.
- Solvents such as petrol, thinner, benzene, carbon tetrachloride, and alcohol may damage and crack plastic parts. Do not wipe them with such solvents. Wipe plastic parts with a soft cloth lightly dampened with soapy water and dry thoroughly.
- Only use approved replacement parts. Non-approved parts will void your warranty and can lead to malfunction and resulting injuries. Genuine parts are available from your dealer.
- Do not modify the compressor for any use other than which it was designed for by the manufacturer. Do not tamper with or attempt to adjust the tank, pressure switch or safety valve. Never strap anything to the tank. Do not subject the tank to impact, vibration, heat, abrasion or corrosive materials.
- Always contact an authorized service centre for advice on any repairs. Unauthorized modification may not only impair the compressor performance but may also result in accident or injury to repair personnel who do not have the required knowledge and technical expertise to perform the repair operations correctly.
- When the compressor is not in use, ensure the pressure switch is turned off, disconnect the equipment from the power source and open the drain cock to discharge the compressed air from the air tank.
- To reduce the risk of burns, do not touch tubes, heads, cylinder and motors. During or immediately after use. Allow equipment to cool down before carrying out maintenance, repairs or adjustments.
- Never direct the output jet of air at persons or animals. Ensure air supply valve is turned **OFF** before disconnecting the air supply hose.
- Read the all safety instructions for any tool or accessory used with the compressor and ensure the safe working pressure of any appliance used exceeds the output pressure of the compressor. If you are using a spray gun it is important to ensure that the work area has sufficient ventilation in place.
- Do not operate in the vicinity of flammable liquids, gases or solids.
- Do not operate the compressor without an air filter or restrict the air flow around the equipment.
- When the compressor is not in use ensure that it is switched off, disconnected from the power supply and the air and moisture drained from the tank.

WARNING LABELS

Label	Potential Hazard	Prevention
 <p>WARNING RISK OF ELECTRICAL SHOCK</p>	<p>Water directed at electrical connections or switches, or objects connected to an electrical circuit, could result in a fatal electrical shock.</p> <p>Moisture or a liquid of any kind may conduct electricity and could result in a fatal electrical shock.</p> <p>Note: This equipment is not waterproof.</p>	<p>Never attempt to clean the air compressor while it is running. Direct any water or spray away from electric outlets and switches.</p> <p>Keep your air compressor out of the elements and well sheltered from rain, snow, dew, water or mist of any kind.</p> <p>Do not use the compressor with the supply cord damaged or with poor quality connections</p>
 <p>DANGER RISK OF EXPLOSION OR FIRE</p>	<p>Operating the air compressor in an explosive environment could result in a fire.</p> <p>Materials placed against or near the air compressor can interfere with its proper ventilation causing overheating and possible ignition of the materials.</p> <p>Improperly stored paint thinners could lead to accidental ignition.</p> <p>Good air flow is important as both the motor and compressor unit are air cooled. Restrictions to or insufficient air flow will cause overheating.</p>	<p>Never spray paint in a confined area with the air compressor.</p> <p>Operate the air compressor in well ventilated areas free from obstructions. Equip areas with fire extinguishers suitable for electrical fires. Do not leave nylon material shirts or jumpers on the compressor.</p> <p>Store paint thinners and other flammable liquids in approved containers, in a secure location away from the work area.</p> <p>Minimum clearance 0.5m / Maximum ambient operating temperature 45°C</p>
 <p>DANGER RISK TO BREATHING</p>	<p>This air compressor does not provide breathable air, the air may be contaminated with mineral based oils and other contaminants which poses the risk of serious lung infection and or injury.</p> <p>Spraying any material without the use of a face mask will result in the ingestion of foreign substances.</p>	<p>Never try to provide breathing air or refill auxiliary breathing apparatus using this compressor.</p> <p>Never spray substances in a closed location occupied by humans or animals always use a face mask when spraying substances</p>
 <p>WARNING RISK OF HOT SURFACES</p>	<p>Contact with hot surfaces, such as the cylinder head, cooling fins or discharge pipe, could result in serious burns.</p> <p>These parts will remain hot for some time after the compressor is shut down.</p>	<p>During operation, touch only the control surfaces of the air compressor. Keep children and animals far away from the air compressor at all times. They may not be able to recognize the hazards of this product.</p> <p>Allow the air compressor to cool before storage.</p>



MAINTENANCE

Before attempting any maintenance jobs on the compressor, make sure of the following:

1. The master power switch is turned off and equipment is isolated from the mains supply.
2. Pressure switch and the control unit switches are all in the **OFF** position.
3. All pressure has been removed from the air tank.

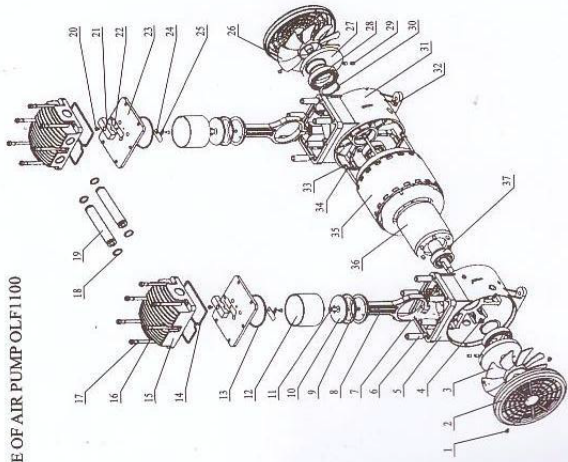
Procedure	Daily / Weekly	100Hrs	200Hrs	400Hrs
Check overall appearance / damages	•			
Drain condensate water from the tank	•			
Check for unusual noise and vibration	•			
Inspect equipment for air leaks	•			
Check air filters		•		
Inspect electrical cable	•			
Replace air filters			•	
General cleaning	•			
Check safety relief valve		•		
Check moving parts for wear / replace		•		
Check and tighten all bolts		•		
Check tubes fittings & electrical connections				•
Service pump / engine				•
Internal & external tank inspection				•
Replace the oil				•

TROUBLESHOOTING

FAULT	CAUSE	REMEDY
Tank pressure drops continually.	Air leak, check all connections.	Locate and rectify leak. Run the compressor at maximum pressure then switch off and disconnect. Brush a soapy water solution over the connections and look for bubbles. Tighten any connections showing leaks. If problem persists contact your authorised service agent.
Tank pressure won't build up.	The drain valve is open.	Close the tank drain valve.
The compressor won't switch off. The safety valve blows off. Compressor does not stop when maximum pressure is reached.	Pressure switch fails to stop motor. Faulty pressure switch.	Contact your authorised service agent.
Tank pressure won't build up and the pump is getting hotter than normal, inlet suction is poor.	The compressor head gasket or valve plate is faulty. Fault with the air filter.	Contact your authorised service agent. Check, clean, replace air filter as required.
There is a leak from the base of the pressure switch when the compressor is running.	Failure of the pressure relief valve. (Located in the base of pressure switch).	Contact your authorised service agent.
There is a leak from the base of the pressure switch when the compressor is stopped.	The non-return valve (from the tank) is leaking.	Disassemble and clean, if necessary replace valve insert. Contact your authorised service agent.
The compressor is noisy with metallic clangs / knocks.	Bearing or piston problem. Low oil level.	Stop the compressor and contact a specialized service technician.
The compressor sounds like it is trying to start (motor makes a humming noise).	Air pressure trapped on piston is resisting the starting effort. Faulty capacitor or fault within the electric motor.	Turn unit off and on again using the pressure switch. This will vent air from the delivery tube. Stop the compressor and contact a specialized service technician.
Overload switch activated.	Startup load may have activated overload switch. Extension lead is too long (if in use) Head unloader not functioning.	Leave for a few minutes then press the reset button and restart. Remove the extension lead and test compressor by connecting the compressor as close to the main fuse box as possible. Stop the compressor and contact a specialized service technician.
Air leaks from the safety valve at pressures less than 8 bar.	The safety valve is faulty.	Replace the safety valve.
Compressor stops and will not restart.	Power failure. Motor failure.	Check electrical supply and fuse. Contact your authorised service agent.

PARTS DIAGRAM - MAIN ASSEMBLY

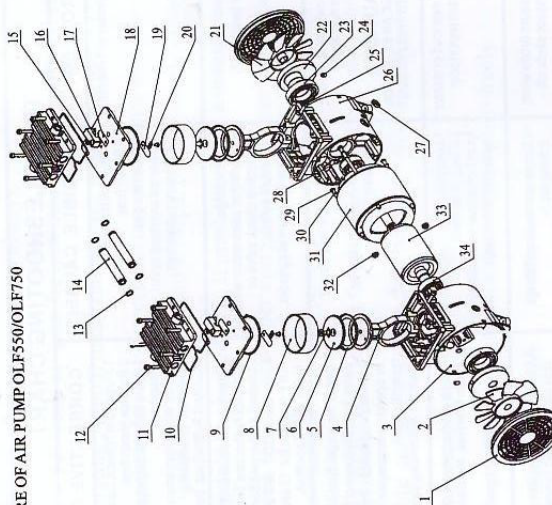
STRUCTURE OF AIR PUMP OLF1100



PARTS LIST OF AIR PUMP OLF1100

NO	DESCRIPTION	Q.TY	NO	DESCRIPTION	Q.TY
1	SCREW ST4.2	4	20	SCREW M4*6	4
2	SIDE COVER	2	21	FASTEN PART	2
3	LEFT FAN	1	22	EXHAUST VALVE	2
4	SCREW M5	4	23	VALVE PLATE	2
5	LEFT CRANKCASE	1	24	INTAKE VALVE	2
6	ADJUSTABLE HOLDER	12	25	METAL CUSHION	2
7	SCREW M5*20	2	26	FAN	1
8	CONNECT ROD	2	27	CRANK	2
9	PISTON RING	2	28	BEARING 6908-2Z	2
10	FASTEN PLATE	2	29	SCREW M6*8	4
11	SCREW M6*16	2	30	BEARING RING Φ40	2
12	CYLINDER	2	31	RIGHT CRANKCASE	1
13	CYLINDER SEAL RING	2	32	WIRE FASTEN RING	1
14	CYLINDER COVER SEAL RING	2	33	SCREW M5*182	4
15	CYLINDER COVER	2	34	SPRING CUSHION Φ5	4
16	SCREW M6*65	12	35	STATOR	1
17	SPRING CUSHION Φ6	12	36	ROTOR	1
18	"O" SEAL RING	4	37	BEARING 6204-2Z	2
19	CONNECT PIPE	2			

STRUCTURE OF AIR PUMP OLF550/OLF750



PARTS LIST OF AIR PUMP OLF550/OLF750

NO	DESCRIPTION	Q.TY	NO	DESCRIPTION	Q.TY
1	SIDE COVER	2	18	VALVE PLATE	2
2	LEFT FAN	1	19	INTAKE VALVE	2
3	LEFT CRANKCASE	1	20	METAL CUSHION	2
4	CONNECT ROD	2	21	RIGHT FAN	1
5	PISTON RING	2	22	CRANK	2
6	FASTEN PLATE	2	23	BEARING 6006-2Z	2
7	SCREW M6*16	2	24	SCREW M6*8	4
8	CYLINDER	2	25	SCREW M5*20	2
9	CYLINDER SEAL RING	2	26	RIGHT CRANKCASE	1
10	CYLINDER COVER SEAL RING	2	27	WIRE FASTEN RING	1
11	CYLINDER COVER	2	28	BOLT M5*152	2
12	SCREW M5*25	12	29	SCREW M5*120	2
13	"O" SEAL RING	4	30	SPRING CUSHION Φ5	4
14	CONNECT PIPE	2	31	STATOR	1
15	SCREW M4*6	4	32	BOLT	2
16	FASTEN PART	2	33	ROTOR	1
17	EXHAUST VALVE	2	34	BEARING 6203-2Z	2

ENVIRONMENTAL PROTECTION



**PLEASE
RECYCLE**

Recycle any packaging and unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment.

When the product becomes completely unserviceable, reaches the end of its working life and requires disposal, drain off any fluids (if applicable) into approved containers and dispose of the product and the fluids according to local regulations.

WEEE Waste Electrical and Electronic Equipment Statement



Information on Disposal for Users of Waste Electrical & Electronic Equipment

This symbol on the product(s) and / or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling, please take this product(s) to designated collection points where it will be accepted free of charge.

For private households:

Dispose of this product at the end of its working life and in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). Contact your local solid waste authority for recycling information for this equipment.

Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling.

Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with your national legislation.

For business users in the European Union:

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

Information on Disposal in other Countries outside the European Union:

This symbol is only valid in the European Union. If you wish to discard this product please contact your local authorities or dealer and ask for the correct method of disposal.

GARAGEKILLAR.se

Verkstadsutrustning

IMPORTANT! SAFETY FIRST!

Before attempting to use this product please read all the safety precautions and operating instructions outlined in this manual to reduce the risk of fire, electric shock or personal injury.



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